BRAIN RESEARCH

VOL. 692 NOS. 1,2 **CONTENTS** **18 SEPTEMBER 1995**

Cited in Biological Abstracts (BIOSIS) – Chem. Abstracts – Index Medicus (MEDLINE) – Current Contents (Life Sci.) – Excerpta Medica (EMBASE) – Psychological Abstracts (PsycINFO) – Pascal et Francis (INIST-CNRS) – RIS (Reference Update) – Current Awareness in Biological Science (CABS)

Guidelines for the submission of manuscripts v

Research reports

Charting of Jun family member proteins in the rat forebrain and midbrain: immunocytochemical evidence for a new Jun-related antigen
R.E. Harlan and M.M. Garcia (USA) 1

Alterations in immediate-early gene proteins in the rat forebrain induced by acute morphine injection
M.M. Garcia, H.E. Brown and R.E. Harlan (USA) 23

Survival of parvalbumin-immunoreactive neurons in the gerbil hippocampus following transient forebrain ischemia does not depend on HSP-70 protein induction
I. Ferrer, M.A. Soriano, A. Vidal and A.M. Planas (Spain) 41

Effects of the dopamine D-1 antagonist SCH 23390 microinjected into the accumbens, amygdala or striatum on cocaine self-administration in the rat
S.B. Caine, S.C. Heinrichs, V.L. Coffin and G.F. Koob (USA) 47

Taurine transport at the blood-brain barrier: an in vivo brain perfusion study
H. Benrabh, J.-M. Bourre and J.-M. Lefauconnier (France) 57

Dopamine release in the medial preoptic area during male copulatory behavior in rats
Y. Sato, H. Wada, H. Horita, N. Suzuki, A. Shibuya, H. Adachi, R. Kato, T. Tsukamoto and Y. Kumamoto (Japan) 66

Dexamethasone down-regulates the expression of endothelin B receptor mRNA in the rat brain
K. Shibata, C. Komatsu, Y. Misumi and T. Furukawa (Japan) 71

Stimulation of A_1 adenosine receptors mimics the electroencephalographic effects of sleep deprivation
J.H. Benington, S.K. Kodali and H.C. Heller (USA) 79

Apamin, a selective SK potassium channel blocker, suppresses REM sleep without a compensatory rebound
J.H. Benington, M.C. Woudenberg and H.C. Heller (USA) 86

The effect of MK-801 and SCH23390 on the expression and sensitization of morphine-induced oral stereotypy
R.T. Livezey, L.B. Pearce and C. Kornetsky (USA) 93

Substance P- and GABA-like immunoreactivities are co-localized in axonal varicosities in the superficial laminae of cat but not rat spinal cord
W. Ma and A. Ribeiro-da-Silva (Canada) 99

Action potential-dependent output of 5-hydroxytryptamine in the anaesthetized rat amygdalopiriform cortex is strongly inhibited by tonic 5-HT_{1B}-receptor stimulation
I. Kikvadze and G.A. Foster (UK) 111

Transient brain ischemia in rabbits: the effect of ω-conopeptide MVIIC on hippocampal excitatory amino acids
G. Wu, H.K. Kim and M.H. Zornow (USA) 118

Intracerebroventricular injection of interleukin-6 induces thermal hyperalgesia in rats
T. Oka, K. Oka, M. Hosoi and T. Hori (Japan) 123

Glutamate enhances the adenylyl cyclase-cAMP system-induced beta-endorphin secretion and POMC mRNA expression in rat hypothalamic neurons in culture: NMDA receptor-mediated modulation
Z. Yang, D.L. Copolov and A.T. Lim (Australia) 129

Nitric oxide synthase inhibitor blocks light-induced phase shifts of the circadian activity rhythm, but not c-*fos* expression in the suprachiasmatic nucleus of the Syrian hamster
E.T. Weber, R.L. Gannon, A.M. Michel, M.U. Gillette and M.A. Rea (USA) 137

Nerve growth factor facilitates conditioned taste aversion learning in normal rats
W.J. Lipinski, K.W. Rusiniak, M. Hilliard and R.E. Davis (USA) 143

NGF-mediated synaptic sprouting in the cerebral cortex of lesioned primate brain
I. Burgos, A.C. Cuello, P. Liberini, E. Pioro and E. Masliah (USA, Canada) 154

Ultrastructural damage and neuritic beading in cold-stressed spinal neurons with comparisons to NMDA and A23187 toxicity
D.G. Emery and J.H. Lucas (USA) 161

3,4-Diaminopyridine-evoked noradrenaline release in rat hippocampal slices: facilitation by endogenous or exogenous nitric oxide
D. Lauth, G. Hertting and R. Jackisch (Federal Republic of Germany) 174

Isolation and culture of human brain microvessel endothelial cells for the study of blood–brain barrier properties in vitro
D. Biegel, D.D. Spencer and J.S. Pachter (USA) 183

NBQX, an improved non-NMDA antagonist studied in retinal ganglion cells
W. Yu and R.F. Miller (USA) 190

(contents continued on p. 289)

0006-8993(19950918)692:1/2;1-5

BRAIN RESEARCH

VOL. 692 NOS. 1,2 **CONTENTS** **18 SEPTEMBER 1995**

Cited in Biological Abstracts (BIOSIS) – Chem. Abstracts – Index Medicus (MEDLINE) – Current Contents (Life Sci.) – Excerpta Medica (EMBASE) – Psychological Abstracts (PsycINFO) – Pascal et Francis (INIST-CNRS) – RIS (Reference Update) – Current Awareness in Biological Science (CABS)

Guidelines for the submission of manuscripts v

Research reports

Charting of Jun family member proteins in the rat forebrain and midbrain: immunocytochemical evidence for a new Jun-related antigen
R.E. Harlan and M.M. Garcia (USA) 1

Alterations in immediate-early gene proteins in the rat forebrain induced by acute morphine injection
M.M. Garcia, H.E. Brown and R.E. Harlan (USA) 23

Survival of parvalbumin-immunoreactive neurons in the gerbil hippocampus following transient forebrain ischemia does not depend on HSP-70 protein induction
I. Ferrer, M.A. Soriano, A. Vidal and A.M. Planas (Spain) 41

Effects of the dopamine D-1 antagonist SCH 23390 microinjected into the accumbens, amygdala or striatum on cocaine self-administration in the rat
S.B. Caine, S.C. Heinrichs, V.L. Coffin and G.F. Koob (USA) 47

Taurine transport at the blood-brain barrier: an in vivo brain perfusion study
H. Benrabh, J.-M. Bourre and J.-M. Lefauconnier (France) 57

Dopamine release in the medial preoptic area during male copulatory behavior in rats
Y. Sato, H. Wada, H. Horita, N. Suzuki, A. Shibuya, H. Adachi, R. Kato, T. Tsukamoto and Y. Kumamoto (Japan) 66

Dexamethasone down-regulates the expression of endothelin B receptor mRNA in the rat brain
K. Shibata, C. Komatsu, Y. Misumi and T. Furukawa (Japan) 71

Stimulation of A_1 adenosine receptors mimics the electroencephalographic effects of sleep deprivation
J.H. Benington, S.K. Kodali and H.C. Heller (USA) 79

Apamin, a selective SK potassium channel blocker, suppresses REM sleep without a compensatory rebound
J.H. Benington, M.C. Woudenberg and H.C. Heller (USA) 86

The effect of MK-801 and SCH23390 on the expression and sensitization of morphine-induced oral stereotypy
R.T. Livezey, L.B. Pearce and C. Kornetsky (USA) 93

Substance P- and GABA-like immunoreactivities are co-localized in axonal varicosities in the superficial laminae of cat but not rat spinal cord
W. Ma and A. Ribeiro-da-Silva (Canada) 99

Action potential-dependent output of 5-hydroxytryptamine in the anaesthetized rat amygdalopiriform cortex is strongly inhibited by tonic 5-HT_{1B}-receptor stimulation
I. Kikvadze and G.A. Foster (UK) 111

Transient brain ischemia in rabbits: the effect of ω-conopeptide MVIIC on hippocampal excitatory amino acids
G. Wu, H.K. Kim and M.H. Zornow (USA) 118

Intracerebroventricular injection of interleukin-6 induces thermal hyperalgesia in rats
T. Oka, K. Oka, M. Hosoi and T. Hori (Japan) 123

Glutamate enhances the adenylyl cyclase-cAMP system-induced beta-endorphin secretion and POMC mRNA expression in rat hypothalamic neurons in culture: NMDA receptor-mediated modulation
Z. Yang, D.L. Copolov and A.T. Lim (Australia) 129

Nitric oxide synthase inhibitor blocks light-induced phase shifts of the circadian activity rhythm, but not c-*fos* expression in the suprachiasmatic nucleus of the Syrian hamster
E.T. Weber, R.L. Gannon, A.M. Michel, M.U. Gillette and M.A. Rea (USA) 137

Nerve growth factor facilitates conditioned taste aversion learning in normal rats
W.J. Lipinski, K.W. Rusiniak, M. Hilliard and R.E. Davis (USA) 143

NGF-mediated synaptic sprouting in the cerebral cortex of lesioned primate brain
I. Burgos, A.C. Cuello, P. Liberini, E. Pioro and E. Masliah (USA, Canada) 154

Ultrastructural damage and neuritic beading in cold-stressed spinal neurons with comparisons to NMDA and A23187 toxicity
D.G. Emery and J.H. Lucas (USA) 161

3,4-Diaminopyridine-evoked noradrenaline release in rat hippocampal slices: facilitation by endogenous or exogenous nitric oxide
D. Lauth, G. Hertting and R. Jackisch (Federal Republic of Germany) 174

Isolation and culture of human brain microvessel endothelial cells for the study of blood–brain barrier properties in vitro
D. Biegel, D.D. Spencer and J.S. Pachter (USA) 183

NBQX, an improved non-NMDA antagonist studied in retinal ganglion cells
W. Yu and R.F. Miller (USA) 190

(contents continued on p. 289)

0006-8993(19950918)692:1/2;1-5

(contents continued)

NADPH-diaphorase expression in neurons and glia of the normal adult rat retina
K.R. Huxlin (Australia) 195

Microglial release of nitric oxide by the synergistic action of β-amyloid and IFN-γ
J.L. Goodwin, E. Uemura and J.E. Cunnick (USA) 207

Regional and cellular expression sites of the α_1 subunit of $GABA_A$ receptors in the rat basal forebrain: a cytochemical study with glutamic acid decarboxylase, choline acetyltransferase, calcium-binding proteins and nitric oxide synthase as second markers
W. Härtig, K. Brauer, J.-M. Fritschy, G. Brückner and V. Bigl (Germany, Switzerland) 215

Adenylyl cyclase activation underlies intracellular cyclic AMP accumulation, cyclic AMP transport, and extracellular adenosine accumulation evoked by β-adrenergic receptor stimulation in mixed cultures of neurons and astrocytes derived from rat cerebral cortex
P.A. Rosenberg and Y. Li (USA) 227

Regional distribution of monoamine vesicular uptake sites in the mesencephalon of control subjects and patients with Parkinson's disease: a postmortem study using tritiated tetrabenazine
F. Thibaut, B.A. Faucheux, J. Marquez, J. Villares, J.F. Menard, Y. Agid and E.C. Hirsch (France) 233

Mechanisms of tumor necrosis factor-α (TNF-α) hyperalgesia
L.R. Watkins, L.E. Goehler, J. Relton, M.T. Brewer and S.F. Maier (USA) 244

Sleep effects following intrathecal administration of the $5\text{-}HT_{1A}$ agonist 8-OH-DPAT and the NMDA antagonist AP-5 in rats
A.A. Bjørkum, B. Bjorvatn, D. Neckelmann and R. Ursin (Norway) 251

MK-801 reverses effects of chronic levodopa on D1 and D2 dopamine agonist-induced rotational behavior
R.C. Boldry, S.M. Papa, A.M. Kask and T.N. Chase (USA) 259

Short Communications

Intranigral GR-113808, a selective $5\text{-}HT_4$ receptor antagonist, attenuates morphine-stimulated dopamine release in the rat striatum
L. Pozzi, L. Trabace, R. Invernizzi and R. Samanin (Italy) 265

Brain dopamine transporter: gender differences and effect of chronic haloperidol
R. Rivest, P. Falardeau and T. Di Paolo (Canada) 269

The anticonvulsant gabapentin enhances promoted release of GABA in hippocampus: a field potential analysis
O. Honmou, A.A. Oyelese and J.D. Kocsis (USA) 273

Quantitative analysis of the olfactory pathway for drug delivery to the brain
R.G. Thorne, C.R. Emory, T.A. Ala and W.H. Frey II (USA) 278

Development of regulation of melatonin release in pineal cells in chick embryo
K. Akasaka, T. Nasu, T. Katayama and N. Murakami (Japan) 283

Author Index 287